

Listing of the claims:

1. In an electronic device having sleep and active states and a digital wake-up signal generating device for switching the electronic device from sleep to active states, the improvement comprising:

a printed circuit board with a ground conductive trace and at least two switch conductive traces;

a contactor bridging the ground and the switch conductive traces and moveable in engagement between switch traces by movement of an actuator coupled to the contactor;

resistor means coupled between the switch traces for producing a distinct analog voltage output when each switch trace is connected to ground by the contactor;

the switch traces alternatingly coupled through the resistor means to first and second outputs; and

means, connected to the first and second outputs, for generating a wake-up command signal when both of the outputs are in a low voltage state.

2. The improvement of claim 1 wherein the wake-up command signal generating means comprises:

an OR gate coupled to the first and second outputs.

3. The improvement of claim 1 wherein:

the contactor and the switch conductive traces are arranged such that the contactor contacts a next adjacent switch trace before disengaging from a proceeding switch trace.

4. The improvement of claim 1 wherein:

the switch traces are one of linearly and circumferentially spaced apart.

5. A method for switching an electronic device having sleep and

active states from a sleep state to an active state by generating a wake-up signal from a digital wake-up signal generating device, the method comprising the steps of:

providing a printed circuit board with a ground conductive trace and at least two switch conductive traces;

providing a contactor bridging the ground and the switch conductive traces and moveable in engagement between switch traces by movement of an actuator coupled to the contactor;

providing a resistor means coupled between the switch traces and producing a distinct analog voltage output when each switch trace is connected to ground by the contactor; and

alternatingly connecting the switch traces through the resistor means to first and second outputs; and

determining when the first and second outputs are both at a low voltage level to generate a wake-up command output signal.

6. The improvement of claim 4 wherein:

the determining means coincides with movement of the actuator coupled to the contactor between two distinct positions.